CLAIMS

 A composition having antioxidant properties comprising at least one compound of the formula I

$$R^{3}$$

$$R^{2}$$

$$R^{1}$$

$$R^{1}$$

$$R^{2}$$

$$R^{1}$$

$$R^{3}$$

$$R^{10}$$

$$R^{7}$$

$$R^{10}$$

$$R^{10}$$

$$R^{10}$$

where R¹ to R¹⁰ may be identical or different and are selected from

- H
- OR¹¹
- straight-chain or branched C₁- to C₂₀-alkyl groups,
- straight-chain or branched C₃- to C₂₀-alkenyl groups,
- straight-chain or branched C_1 to C_{20} -hydroxyalkyl groups, where the hydroxyl group(s) are bonded to a primary or secondary carbon atom of the chain and furthermore the alkyl chain is optionally interrupted by oxygen, and/or
- C_{3} to C_{10} -cycloalkyl groups and/or C_{3} to C_{12} -cycloalkenyl groups, where the rings are each optionally bridged by -(CH₂)_n- groups, where n = 1 to 3,
- where all OR¹¹ are, independently of one another,
 - OH
 - straight-chain or branched C₁- to C₂₀-alkoxy groups,
 - straight-chain or branched C₃- to C₂₀-alkenyloxy groups,

- straight-chain or branched C₁- to C₂₀-hydroxyalkoxy groups, where the hydroxyl group(s) are bonded to a primary or secondary carbon atom of the chain and furthermore the alkyl chain is optionally interrupted by oxygen, and/or
- C_{3} to C_{10} -cycloalkoxy groups and/or C_{3} to C_{12} -cycloalkenyloxy groups, where the rings are each optionally bridged by - $(CH_{2})_{n}$ groups, where n=1 to 3, and/or
- mono- and/or oligoglycosyl radicals,

with the proviso that:

- at least 3 radicals from R^1 to R^7 are OH and that at least 2 pairs of adjacent -OH groups are present in the molecule, or R^2 , R^5 and R^6 are OH and the radicals R^1 , R^3 , R^4 and R^{7-10} are H.
- 2. The composition of claim 1, comprising at least one compound of the formula I wherein at least two adjacent radicals of the radicals R^1 to R^4 are OH and at least two adjacent radicals of the radicals R^5 to R^7 are OH.
- 3. The composition of claim 1, comprising at least one compound of the formula I wherein at least three adjacent radicals of the radicals R^1 to R^4 are OH.
- 4. The composition of claim 1, comprising at least one compound of the formula I wherein the radicals R^1 to R^3 are OH.

- 5. The composition of claim 1, comprising one or more compounds of the formula I in an amount of from 0.01 to 20% by weight.
- 6. The composition of claim 1, comprising one or more compounds of the formula I in an amount of from 0.1 to 10% by weight.
- 7. A composition of claim 1, for the protection of body cells against oxidative stress, which further comprises one or more other antioxidants and/or vitamins.
- 8. The composition of claim 7, wherein at least one other anti-oxidant or vitamin is vitamin A palmitate, vitamin C or a derivative thereof, DL-α-tocopherol, tocopherol E acetate, nicotinic acid, pantothenic acid or biotin.
- 9. A composition of claim 1, which further comprises one or more UV filters.
- 10. The composition of claim 9, wherein at least one UV filter is selected from the group consisting of 3-(4'-methylbenzylidene)-dl-camphor, 1-(4-tert-butylphenyl)-3-(4-methoxy-phenyl)propane-1,3-dione, 4-isopropyldibenzoylmethane, 2-hydroxy-4-methoxybenzo-phenone, octyl methoxycinnamate, 3,3,5-trimethylcyclohexyl salicylate, 2-ethylhexyl 4-(di-methylamino)benzoate, 2-ethylhexyl 2-cyano-3,3-diphenylacrylate, 2-phenylbenzimidazole-5-sulfonic acid and its potassium, sodium and triethanolamine salts.

- 11. The composition of claim 1, which composition is a food or a food supplement and comprises an excipient which is suitable for a food or a food supplement.
- 12. A process for preparing a composition of claim 1, which comprises mixing a compound of the formula I with an excipient which is suitable cosmetically or dermatologically or for food.
- 13. A process according to claim 12, wherein the compound of the formula I is prepared by reacting a 2-hydroxyacetophenone compound with a lithium compound and subsequently a keto compound.
- 14. A method for achieving an anti-oxidant effect on a patient which comprises administering to the patient a composition of claim 1.
- 15. The method of claim 14, wherein the composition is applied to the skin.
- 16. The method of claim 14, wherein the composition further comprises at least one UV filter compound.
- 17. The method of claim 16, wherein at least one UV filter compound is a dibenzoylmethane compound.
- 18. A composition of claim 1, which is in the form of an emulsion.